

THERE IS CLAIMED:

1. An optoelectronic device for use in an optical detector module of a meter comprising a rotary member having a reflective sector, said device comprising:

- a voltage edge source,
- a sender comprising a light-emitting diode emitting a light pulse in response to a current pulse,
- a receiver, and
- a voltage source,

in which device said sender comprises a capacitor and a resistor connected on one side to said voltage source and said capacitor is connected on one side to said voltage edge source and on the other side to the other side of said resistor and to the anode of said light-emitting diode.

2. The optoelectronic device claimed in claim 1 wherein the resistance of said resistor is selected to bias said diode whilst maintaining a low forward current in said diode.

3. The optoelectronic device claimed in claim 1 wherein said receiver comprises:

- a comparator for comparing the input voltage of said receiver at a threshold voltage, and
- an adjustment capacitor the charge in which sets the value of said threshold voltage.

4. The optoelectronic device claimed in claim 3 comprising means for generating a current through said adjustment capacitor for a particular time.

5. The optoelectronic device claimed in claim 3 wherein said receiver comprises a charging resistor, said comparator has an inverting input and a non-inverting input, and said adjustment capacitor is connected on one side to said inverting input and said charging resistor is connected on one side to said inverting input.

6. The optoelectronic device claimed in claim 4

wherein said means for generating a current comprise a microcontroller.

7. The optoelectronic device claimed in claim 3 wherein said receiver comprises auto-adaptation means for adjusting the value of said threshold voltage to the value of said input voltage in the presence of said light pulse.

8. The optoelectronic device claimed in claim 1 wherein said receiver comprises a photodiode and a capacitor for storing the energy transferred by said photodiode.

9. The optoelectronic device claimed in claim 8 wherein said receiver comprises a comparator having an inverting input and a non-inverting input and said non-inverting input is connected to the anode of said photodiode and to one side of said storage capacitor.